



Notes on the way.

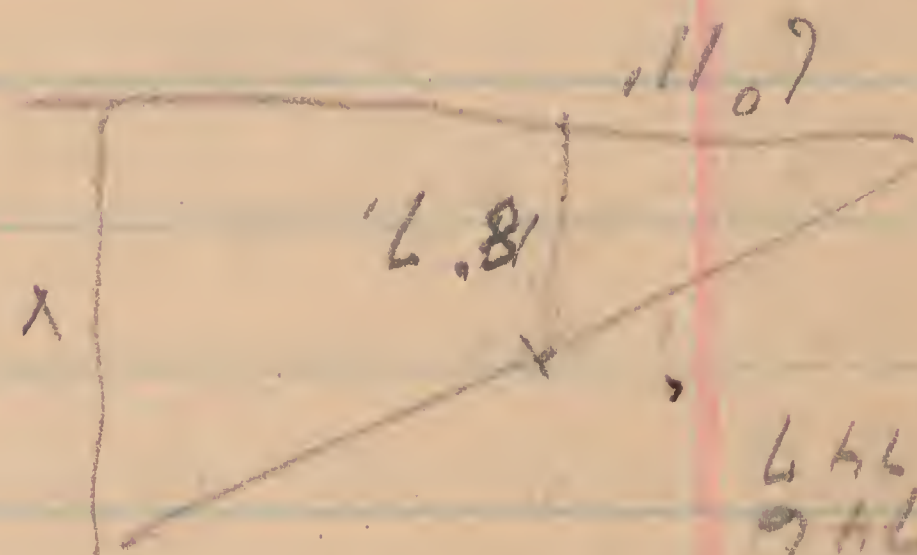
July 17-1903.

Between Walker & Rowley
 saw Hakea linearis
 near Rowley - $\frac{1}{2}$ mi S.
 Saw others several miles
 N. of Rowley, - within a
 mile of Independence.
 Also near Bryant's Bay.
 Also just beyond Maynard.

$$\frac{83}{103} \times \frac{12}{556} = \frac{12}{103}$$

$$\frac{255}{46} = \frac{55}{26}$$

$$X : \frac{21}{2} :: \frac{21}{4} : \frac{21}{2} X$$



$$\frac{46}{11.9} = \frac{55}{38.5}$$

$$\frac{59269}{955} = \frac{3221}{103}$$

$$\frac{644}{946} = \frac{864}{864}$$

$$\frac{67}{11.9}$$

2

Very ^{or quite} common prairie

Plants on way up

Sium cicutifolium very*Aschillea* "*Rudbeckia hirta* "*Euphorbia corollata* "*Hemera virginica* "*Transmontana* "*Liatris pycnostachya* "*Cacalia* ^{mt.}*Desmodium canadense**Eriogonum strigosum* very*Asclepias cornuti**Verbena hastata**Oenothera biennis**Lilium canadense**Solidago**Leucodermis pinnata**Broussonetia* ^{Broussonetia} *argentea* ^{fr.}*Rosa* ^{alba}*Antennaria racemosa* ^{Cherry}*Siphium integrifolium*
(in bud)

3

*Monarda mollis**Asclepias tuberosa**verticillata**Silene stellata**Oryzopsis*

Plants between Jackson & Co.

Jackson & Co. - July 18-1903

17 *Polygonum Muhlbergii*

20 *Sium*

4 *Eriogonum palmata*

7 *Euphorbia corollata*

19 *Rudbeckia hirta*

6 *Desmodium canadense*

8 *Erigeron strigosus*

16 *Oenothera biennis*

25 *Veronica viridica*

9 *Eriogonum yuccifolium*

13 *Lepachys pinnata*

14 *Ligustrum canadense*

1 *Achillea*

18 *Potentilla canadensis*

10 *Habenaria leucophylla*

15 *Liatris pycnostachya*

5 *Brassica*

11 *Hebe*

24 *Madia*

21 *Solidago*

26 *Verbena hastata*

22 *Silene stellata*

2 *Asclepias tuberosa*

12 *Helianthus grosseserratus*

3 *Asclepias incarnata*

23 *Silene integrifolia*

St. Atkinson -

Silene perfoliata

Scrophularia

Zenaidura

Thalassia

Aster

Rumex

" *crispus*

Helianthus

Monarda

Heracleum

Asclepias incarnata

Amorpha canescens

Sparganium angustifolium

Plant - Calmar July 17

- + *Equisetum arvense*
- + " *hyemale*
- + *Ageratis alba*
- Limnium vulgare*
- Acer negundo*
- Artemisia minima*
- Plantago* —
- Juncus acuminatus*
- + *Potentilla canadensis*
- Rumex crispus*
- crispus*
- Mentha cotula*
- + *Lebidium apetalum*
- + *Oxybaphus rugosus*
- + *Euphorbia maculata*
- Phlox pratensis*
- Trifolium pratense*
- + *Rosa arvensis*
- Salix bali var*
- + *Schizanthus lutea*

- + *Monarda mollis*
- + *Erigeron strigosus*
- Polygonum orientale*
- dentatum*
- perfoliatum*
- + *Vicia americana*
- + *Juncus tenuis*
- Bromus arvensis*
- Agropyron repens*
- Pedicularis virginica*
- + *Stachys palustris*
- + *Astragalus canadensis*
- + *Carex*
- + *Carex vulpinoidea*
- + *Carex*
- + *Chenopodium leptophyllum*
- Chenopodium*
- + *Helianthus scaberrimus*
- + *Artemisia ludoviciana*
- + *Cornus rugosa*
- + *Helianthus*
- + *Panicum virgatum*

- + Salix ~~sp.~~
 Hydrax palustris
 + Scandellus arvensis
 + Lathyrus venosus
 + Trifolium pratense
 Polygonum
 Rumex crispus
 Corda palustris
 + Mitella gracilis
 + Prunella
 Polygonum convolvulus
 + Quercus macrocarpa
 + Corylus amara
 + Phytolacca americana
 + Potamogeton
 + ~~Urtica~~
 + Arisaema
 + Helianthus giganteus
 + Silene acaulis
 + ~~Plantago~~
 + Polygonum persicaria

- + Crisium
 Ranunculus acris
~~Asplenium~~
 Rubus allegheniensis
 + Carex flacca
 Chrysanthemum leucanthemum
 Rudbeckia hirta
 Lysichiton americanus
 + Desmodium illinoense
 + Lactuca
 Lactuca
 Populus deltoides
 + Vernonia ligularis
 + Baptisia
 + Euphorbia corollata
 + Penstemon vulgaris
 Erysimum aegyptiacum
 + Achillea millefolium
 + Lobelia spicata
 + Smilax ~~sp.~~
 Polygonum convolvulus

- + *Helianthus purpureus*
Aucuba canadensis
Lysichiton alba
Crataegus
 + *Helianthus magnus*
 + *Parthenium integrifolium*
 + *Solidago*
 + *Saxifraga*
 + *Staphylea trifolia*
 + *Helianthus occidentalis*
 + *Potamogeton candidus*
 + *Ampelopsis hybridus*
 + *Pistia pycnantha*
 + *Andropogon furcatus* L.
 + *Salix humilis*
 + *Asclepias curtisi*
 + *Hebeclia hispida*
 + *Vicia pedunculata*
 + *Campanula medium*
 + *Andropogon furcatus* L.

- Erigeron cicutifolius*
Stachys — *sp. L.*
 + *Lepidogon capitata*
 + *Aster agerifolius* in fl.
Platanus *sp.* *in hort. Can.*
Asplen. filix *for* *"*
Silene stellata *"*
Hydrangea *sp.* *"*
Phlox leptostachya *"*
Aquilegia *3-ly* *"*
Lonicera maackii *"*
Populus tremula *"*
A. rubra *"*
Carex — *sp.* *"*
Rhus glabra *"*
Aphis — *in fl.* *"*
Quercus bicolor *"*
Geranium maculatum *"*
Vitis vulpina *"*
Oxalis stricta *"*
Nepeta cataractae *"*
Geranium maculatum *"*
Rosa *sp.* *"*

Aquilegia canadensis woods

Achillea millefolium ?

Sagittaria variabilis - swamp

Bidens pinnata "

Ambrosia artemisiifolia

" *trifida*

Lepachys pinnata

Petalostemum notatum

Hordeum pusillum

"

Scirpus ^{steris} *viridis*

Raphanocarpus

Trifolium repens

Capella tunc pule

Brassica

Willow

Panicum amo galli

Sisymbrium officinale

Eriogon canadense

Eragrostis megastachya

Portulaca oleracea

Portulaca oleracea

Monarda - along RR

Epilobium angustifolium

Rubus canadensis

Agropyron - ~~sp. 1~~ ^{sp. 2}

Verbena hastata

Smilacina stellata

Galium ~~sp. 1~~

Red valerian canadensis

Melilotus alba

Bryonia argentea

Dec 18
 Sam
 Lignum cardii
 Verbena stricta
 Mercurialis Thapsus
 Asclepias tuberosa
 Acer negundo
 Potamogeton terrestris
 Betula v. papyrifera
 Rhos glabra
 typhina
 Ilex viridis
 Pyrola racemosa
 Quercus macrocarpa
 Lilia am.
 Corydalis ovata
 Cirsium lanceolatum
 Pinus serotina
 " virginiana
 Sambucus canadensis
 Ribes floridum
 Siphium perfoliatum

Lophanthus ^{ocrot} purpurea
 Salix discolor
 Impatiens furcata
 Comandra dry-
 Quercus alba
 " rubra
 Juglans nigra
 Thalictrum flavum
 Hepatica glabra

In the large woods NW
of Hesper. I found Hard
Maple (Amel) most common,
especially lower down. With
it were some elm (smooth,
Hesper?) & an occasional
Casswood. Upward there
were red & white oaks &
Ch. velutina?, occasionally
a wild cherry, *Ostrya*,
Curoak - Pigfoot.

Butternut

A few White Pines on bluffs
below canoe. Yew trees
everywhere on a slope
upward. In some of
my Black Oak Thicket
anything else.

I found my Black Oak not
common upland tree as
you find canoe.

Between that & Decoral,
especially Norton
Freeport on N. side of
river, Red oak is the
most common, & my black
oak is rare. White oak
is common on uplands.
Populus grandidentata is
rare, but *P. tremuloides*
is very common.

Free Wh. Pine, ^{some} on bluffs above
Decoral - Red cedar quite
common.

Rock pines on chalk on
way to Franklin - Curoak

18

~~James M. Smith~~

Rel. glabra

Rev. Mr. [illegible]

~~W. L. G. C.~~

1

~~W. C. C. C.~~

[Faint, illegible handwriting]

Write this

[Faint handwritten text, possibly a signature or date, is visible in the bottom right corner.]

140

1850

Alnus grandis

[Handwritten signature]

John W. W. W. W.

2. *Stellaria media* (L.) Link.

100

14

1. Subark

Am. Soc.

122

12

Chrysomelidae

Chalazas Area

[Faint handwritten notes at the bottom of the page]

Storia

19

~~Joe Hickory~~

Chick

Alvise Riva

Rosa

12

~~1. Dressing~~

Casey - 1/2 - 1/2

[Faint, illegible handwriting]

...

2000

допуска

Toward Moneck*Rhus glabra**Quercus rubra**" elliptica**" alba**" macrocarpa**Juglans nigra**" cinerea**Lilia m.**Prunus serotina**Ulmus am.**Fraxinus am.**Populus tremuloides**" grandidentata**Cornus paniculata**Betula humilis**Paeonia quinquefolia**Corylus am.**Carya cordiformis**" ovata**Cistaceae cruxgalli**Vitis vulpina**Asimina virginiana**Pyrus ioensis**Rubus allegheniensis**Rosa pratincola**Cistaceae punctata**Rosa blanda**Lonicera*

22

23

N. of Decatur on
 on road to Sherman
 saw a layer of loess
 which was washed on surface
 & shows stratification from top
 to surface.

It was so washed that
 little ridges marked stratification.
 The loess clear to Canyon or
 in thin - 3-6 ft. & not
 fossiliferous. Under it at
 several points one could see
 badly weathered Kansan loess
 with dark pebbles. It is thin.
 Under it one could see outcrops
 of Trenton limestone.

The topography on the plateau
 between Decatur & Canyon is
 heavily Kansan - rolling.

62

63

July 1906

Rock banks

Rhododendron
 Lonicera
 Eubryanthus Haysii
 Quercus
 Chestnut tree bark
 Haptophyllum
 Gladiolus
 Alnus
 Red Elm
 Amelanchier
 June berry -
 Shad-bush
 Ribes
 Prickly gooseberry
 Juniperus
 Red cedar
 Prunus
 Choke cherry
 Zanthoxylum
 Prickly ash
 Etilia
 Basswood
 Yellow
 Horn Maple
 Quercus
 Red Oak
 Quercus
 Yellow Oak
 Carya
 Hickory -
 Carya
 Iron wood
 Viburnum dentatum

Panicum ~~swiss~~
Lepachys pinnata
Brauneria
Ochroma angustifolia
Petalostemon candidus
Tagetis ~~intermedia~~
Silphium integrifolium
Aster novae-angliae
Erigeron annuus
Pedicularis canadensis
Lepachys angustifolia
Amorpha canescens
Erigeron annuus
Coreopsis palmata
Helianthus scaberrimus
Asclepias verticillata
Thalictrum flavum
Ceanothus americanus
Ligustrum scarica
Comandra umbellata
Dodecatheon meadia
Thalictrum flavum

Rudbeckia hirta
Erigeron annuus
Lobelia inflata
Panicum capillare
Silphium integrifolium
Artemisia biennis
Specularia perfoliata
Asclepias tuberosa
Rhus glabra
Solidago missouriensis
Rosa carolina
Rubus allegheniensis
Pyrola asarifolia
Coreopsis tripteris
Menyanthes triflorata
Petalostemon violaceus
Urtica dioica
Rubus odoratus
Sporoxylum canescens
Eupatorium altissimum
Profilum proserpinacoides

74

Limonium paniculatum
Cornus paniculata
Verbena angustifolia
Scrophularia asperella
Helianthus scaberrimus
Desmodium canadense
Silene stellata
Elysiunum cheiranthoides
Oxyphloeum nigrum
Kochia cristata (acuta)

75

Upland
White Oak
Hickory
Gum Ash
Red Oak
Ostrya
Sumach
Cornus americana
Sage
Hazel
Cornus canadensis
Populus tremula
 " *grandidentata*

76

alluminal

Salix nigra

Walnut

Butternut

Hackberry

Pignut

Honey Locust

Am. Elm

Black Ash

Carpenter

Pine Elm

Grape

77

78

July 26 - 1904

Equality CR & P.

*Solidago nemoralis**Euphorbia corollata**Aster multiflorus**Equisetum hyemale* var" *arvense**Coreopsis palmata**Solidago rigida**Morone scabra**Solidago angustifolia**Andropogon furcatus**Desmodium illinoense**Achillea millefolium**Pastinaca canadensis**Lechydium capitatum*~~*Desmodium*~~
*achillea angustifolia**Coreopsis tripteris**Petalostemon candidum**Liatris scabra**Oenothera**Rumex cylindrica*

79

*Petalostemon violaceum**Artemisia ~~gambeliana~~**Eryngium yuccifolium**Aster (a. ^{laevis})**Anemone can.**Baptisia racemosa**Lepachys pinnata**Parthenocissus* *int.**Silphium integrifolium**Helianthus rigidus**" ~~grosserifolius~~**Baptisia leucantha**Parthenocissus* *laevis**Apocynum cannabinum**Helioscopia scabra**Lythrum alatum**Centaurea**Solidago ^{graminifolia}**Rubus ^{laevis}**Lythrum ^{amer.}**Eleusine ^{canadensis}*

Asclepias curassavica
Galium
Thalictrum flavum
Rumex crispus
Vernonia fasciculata
Pycnanthemum flexuosum
Leptochloa pycnostachya
Verbena hastata
Loelia spicata
Pedicularis lanceolata (low)
Cirsium discolor
Ranunculus bipindus
Asclepias speciosa
Potentilla canadensis
Saxifraga atrorubra
Rubus humilis
Hypericum ciliatum
Desmodium illinoense
Silene laciniata
Aster calycifolius
Cnicus tuberosus

Vernonia virginica
Oxalis stricta
Phlox pilosa
Viola delphinifolia
Convolvulus sepium
Hesperis matronalis
Comandra umbellata
Loelia spectabilis
Rosa pratincola
Asplenium adnigrum
Antennaria neglecta
Polygala sanguinea
Polygala verticillata
Asclepias tuberosa
Aster blanda
Linum catharticum
Pedicularis canadensis
Stellaria media
Asclepias verticillata
Potentilla arguta
Urtica dioica

Oenothera biennis
Thlas arvense
Rubus cuneifolius
Asclepias tuberosa
~~*Rosa arvensis*~~
Polypogon monspeliensis
Leucum canadense
Ceanothus americanus
~~*Cirsium*~~
~~*Cirsium altissimum*~~
Vitis amurensis
Oxybaphus rufus
Tragium virginicum

84

85

Quercus

Red oak -

Quercus

Yellow oak -

Carya alba -

Q. ^{alba}

Q. alba,

Populus grandidentata -

Astrya -

Corylus

Hazel -

Rosa blanda -

Populus tremuloides -

Filia

Basswood -

Juglans

Fraxinus

White Ash

Rhus glabra

Prunus

Black cherry

Acer

Astragalus

Spiraea

Cornus paniculata

Rubus

Blackberry

Smilax hispida

Celastrus

Rhamnus

Carya amara

Rhamnus lanceolata

Rhamnus ^{lanceolata}

Astragalus

Q. americana

Rhamnus ^{lanceolata}

Ribes

Rhamnus

Ceanothus

Juniper

Prunus

Astragalus

Rhamnus oblongifolia

Lowland
Betula nigra
 Black birch
Amorpha fruticosa
Quercus
 Red oak
Cornus paniculata
Gleditsia
Hesperis
Quercus
 White oak
Prunus
 Black cherry
Juglans
 Black walnut
Prunus
 Choke cherry
Juglans
 Butternut
Ostrya
Rubus
 Red Elm
Prickly
Amelanchier
Crataegus comm.
Fraxinus
 White ash
Lilium
 Bush lily
Cystopteris

Ulmus
 Elm
Vitis
Evonymus
Prunus
 Black cherry
Prunus
 Wild plum
Acer
 Soft maple
Acer
 Red maple
Populus
 Cottonwood
Fraxinus
 White ash
Celtis
 Hackberry
Salix amygdal.
Carpinus
Baccharis
Sambucus
Ribes
Salix caprea
Staphylea
Prunus
 Black cherry
Prunus
 Sweet cherry

Alnus incana - July 25
Fraxinus
Box Elder
Populus tremuloides
Corylus
Hazel
Rhus Toxicaria
Vitis
Xanthoxylum
Eriogonum alatum
Alnus
Prunella
Viburnum
Smilax hispida
Juglans
Butterfly
Melicope
Momordica
Rhus
Morus
Prunus
Red Plum
Salix
Rubus
Prunus
Pyracantha
Gleditsia
Locust

Populus grandidentata
White Oak
Carya ovata

108

109

Loess.
Kansan drift
glacial.

St. Peter's S.S.

Trenton L.S.

green shale
Upper Onondaga
New Richmond
Lower Onondaga

H. Gray S.S.

Trees cut in Newmarket W.

Calamus

Box Elder

Cottonwood

Lombardy Pop.

Soft Maple

Wh. Pine

M. Decoral

Balm li

Scot Pine

Ash

Wh. P. Plate

Lombardy

Rus. Cedar

Hickory

Mt. Ash

Wh. Pine

Norway Spruce

Canada Birch

Hard Maple

Red Birch

Red Birch

Cottonwood

Scot Pine

Satin Albo

Hickory

12

Decoral - July 20 - 1903

Box Elder

Norway Spruce

Cottonwood

Ash

Hard Maple

Wh. Pine

Soft Maple

Hickory

green

Wh. Ash

Walnut

Buckeye

Catalpa

Maple? - 1

Wh. Cedar

Red Cedar

Choke Cherry

Trunk Oak

Red Cedar

Mt. Ash

Canada Birch

Green Ash

23

Scot Pine

over all

114 July 1903
 Prairie Plants - along
 CR & P. E. of Iowa City
 Lowland

Equisetum robustum
~~*Sium*~~
Carex
Lythrum latum
Scrophularia canadensis
~~*Conium maculatum*~~ also upland
Verbena hastata
Liatris pycnostachya
Helianthus grosseserratus
Veronica virginica
Halenia laetiflora
Lilium canadense

115 July 1903
 Prairie Plants - E. of Iowa City
 along CR & P.
 Upland

Equisetum arvense
Lepachys pinnata
~~*Lythrum latum*~~
Scrophularia carolinensis
Oenothera biennis
 " *candida*
Bryonia
Oenothera angustifolia
Oscularia cornuta
Rubus hirtus
Coropis palmata
Euphorbia corollata
Holcus scaber
Eryngium yuccifolium
Equisetum hyemale v.
Apocynum cannabinum
Pyrola liliifolia
Liatris pycnostachya
Cassia tuberosa
Potamogeton amplifolius
 (over?)

116

Upland (con.)

*Oenothera biennis**Asclepias verticillata**Desmodium ~~canadense~~*" *illinoense**Asclepias tuberosa**Silphium laciniatum*" *integrifolium**Verbena stricta**Solidago missouriensis**Helianthus rigidus**Juncus tenuis**Carex fastuosa**Salix humilis**Baptisia ~~canadensis~~**Horchera lipoidea**Pedicularis canadensis**Phlox pilosa**Aurata ^{secunda}**Scrophularia leporella**Asclepias sullivanti*

117

Upland (con.)

Polygala sanguinea

118



Mrs. Robinson Reid
Hotel. Hesper, Ia.

Mrs. J. A. Reid,

